Recd Dec 6th
Ans May 15

Bellevue Nebraska Nov 26th 1855

Dear Dr Engelmann,

The Box containg 8 Bottles of Alcoholic Specimens and the Cacti which I think will interest you have just started this morning for St Joseph — Col Gilmon a friend of mine at this place will then take them to St Louis and leave them with the American Fur Company or send them to you, I feel anxious to have you get them as soon as possible for they may spoil for I think you will be deeply interested in them. You may expect to receive them very soon after you receive this letter — Please send the Bottles carefully packed, to Prof Baird by express, and Please keep a note of any expense you may be to, for me or Col V.

You may expect an interesting collection of plants next Spring from me. The Bottles contain Specimens of Reptiles, fishes, Insects &c from the Yellow Stone and are of priceless value, I hope they will get to Prof Baird uninjured I start for Fort Pierre tomorrow morning early. I shall have a cold time of it but I have a glad Heart — for I think there is something good in store for me.

Please write as soon as you can and Accept my kindest regards.

F.V. Hayden.

Ans March 11

Chara polyphylla A Br. α. Michauxii

Cleaveland (Ohio) Feb 10th/53

Dr. Gray,

Dear Sir,

I send you enclosed a species of Chara as I suppose, which I obtained from the river in this vicinity last summer. I was unable to determine it from any books to which I could obtain access, I showed it to Mr Wood. he did not recognize it It is not very well preserved. but as well as could be under the circumstances. If you will give me some information respecting it. I shall be greatly obliged,

With much Respect, Yours,

F. V. Hayden,

Dear E.

Please name said ~~[illegible]~~ Chara for this man, giving him the name by mail

Yrs ever

A Gray

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Recd April 11
Ans verbally

Rochester April 5th 1864.

Dear Dr. E—

I received your welcome letter with much joy and was glad to hear from you— I was somewhat at a loss to know why I did not hear from you before— I am sincerely obliged for the trouble you have taken for me—

As yet I have heard nothing directly from Col. Vaughan— I think if he is still disposed to carry out his plan I shall accept his offer and have written several times signifying my acceptance. If he has heard from me I think it very strange that he does not inform me one way or the other— Prof Baird is much interested in that country and I hope will provide some way for me to go there—

I will enclose a not to Col. V— which I wish you would be so kind as to get to him some way. If he is in St Joseph's yet—please send it by mail to him as soon as possible—

I am very glad if there is any thing interesting among the Cacti— If I go again I shall be more particular in my search for them— I hope you will obtain a set of the plants, they are all with Prof Hall—

I am remain with much Respect, Yours
F. V. Hayden.

To Dr G. Engelmann.

If I fail to go for Col. V., I hope I can go with Culbertson to Blackfoot country. I will go most any way and for most any price or for my expenses simply. Please direct my note to Col. V.

Rec^d Nov 25
Ans May 15

Bellevue Nebraska ~~Oct~~ Nov 11th 1854

Dear Dr Engelmann,

I received a fine package of letters at Fort Pierre by the fall Express in which was enclosed a very kind letter from you. I was delighted to get some letters I can assure you not having heard a word from any of my friends for 4 months. Why did I not receive a letter from Prof Baird of later date? I received none, stating that he had received and Specimens from me. — I am most sincerely grateful to you for the kindness you have shown me in forwarding my letters &c. I am glad also that you receive a collection of Plants from Prof Hall. They are not as well preserved as I would have wished. You are aware that Botany was not the object of the trip and consequently my opportunities were very poor. The label in each paper applies to all in that paper. that is they were collected or grown in or near the locality mentioned. Prof Hall seemed to attach no value to the Plants, and when I was dividing them into sets last winter he wished me to spend but little time on them as they were of no value, fossils being the only thing he cared about, so I got rid of them the shortest way possible. I hope however that you will be able to do something with them. I have a fine now at Fort Pierre, may different from those of last year and I think better preserved. I purpose to take the most characteristic Specimens of each Species, Number them 1, 2, 3 &c give place, date &c and the Geographical distribution in the West; thus No 1 on label — refer to notes with full remarks &c soil, formation &c I feel anxious to determine the Geographical distribution of Plants in the Upper Mo country. When thus prepared I wish to send them to you in Spring by Col Vaughan so that you may describe any new Species &c ——

I send you a Box containing three Bottles of Alcoholic Specimens which I wish to have sent to Prof Baird — In the Box you will find all the Cacti I have collected this Season with notes &c I think there is one new Species — found only on the Yellow Stone call jumping prickly Pear because the seed vessels fly on the traveller like Burrs — "Desc. taken in field —

"Nearly circular leaves — flat — branching — Spines profuse — two kinds — one or two large spines sometimes 2 or 3 inches in length — reddish brown surrounded by 6 or 8 small white spines — Seeds always white on Plains low and high, dry Barren Soil, quite abundantly in patches Seed vessels numerous on a plant — three to six" Again — "I noticed on upland Prairie a very large bunch of jumping Cactus in which some of the leaves were six inches in length — four broad — three fourths thick — On several leaves I counted eight seed vessels — Spines around edge very thick and red" — This was a recent growth — these notes are from my note book — I think if you get the Box safely you will find good Specimens of O. fragilis — there are two Seed ~~vessels~~ corresponding to your figure.

you will also find some small Specimens of Petrified wood, Please keep them if you like them — also some Pine cones — all from the Yellow Stone. The Box will be sent to St Louis care of "P. Chouteau Jr & Co". and will come to this office within a few days after the arrival of this letter 2 weeks —

Any expense that you may be at, on my account. Please keep an account and I will pay all on my return — I am afraid I make you much trouble. Please bear with me for the sake of our favorite pursuit — The three Bottles contain very rare Specimens. I would like to have them go to Prof Baird with care —

Perhaps you wonder at receiving a letter bearing the above Date and place — On arriving at Fort Pierre there was no one to whom Col V— wished to entrust his express The excited state of the Indians rendered it unsafe for me to operate much during the fall — so he wished me to go down to Council Bluffs and see all his papers safe in the Post Office — I have just arrived. 15 days journey, in a small Skiff — Low water and much detained by wind &c. I shall go back soon on Horseback by land — A cold time I am afraid — But I have all I can do this winter in Stuffing animals, preparing my notes Specimens &c — I made a fine collection on the Yellow Stone, about three tons weight. Many new Specimens — especially fossils plants. I am inclined to think that the Ancient Flora rivals the Modern — Really Beautiful!! I have quite a variety of Stuffed animals as — 4 Bears, 8 Prairie Dogs, 2 Grizzly Bears, 2 Buffalo calves, 3 antelopes, a large number of Heads

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of Antelope, Deer, Bighorn &c. with skin and heads abt 10 each of wh. be making fine Specimens — 2 Skunks — foxes & wolves and a variety of Birds &c — A good many alcoholic Specimens also — So you see I have already a pretty good collection for one to make single handed & alone — I am very much afraid recent troubles with the Indians is going to prevent me from going to "Bad Lands" next Spring and perhaps suspend all my operations — Much trouble is expected — Please write me as often as you can and give me the news in Science & discoveries — I can hear nothing. It makes me uneasy —

Is Government doing any thing? Are any expeditions being fitted out for exploration? &c — Please remember me very kindly to Mrs Engelmann and accept of the

kindest Regards of

F. V. Hayden

Recd March 20th
Ans May 15th

Fort Pierre, Dec 31st. 1854.

Dr Engelmann—
My Dear Sir—

I hope ere this time you have received those Specimens I sent you and forwarded the Bottles to Prof Baird— In thinking about it since— I fear that Cactus I sent you is not new but simply O— Missouriense— I was thinking that the seeds of O. Missouriense were dark color and these Seeds being a light Yellow led me to conclude that it was new or Strange. I hope however you will find some things interesting in the Box— I am glad that Prof Hall Sent you a set of those plants— They are not well prepared I know but if you can appreciate the circumstances under which they were collected you will at once excuse it— They were all prepared at extra moments when others were resting— rather contrary to the wishes of Mr Meek or Prof Hall who thought for nothing but fossils— The Label in each papers means that all in the paper were collected in or grew at that Locality— I did this because Prof Hall hurried me up. telling not to spend much time on them. as it was all lost time to him— This was to me poor encouragement.

I will send you a set of what plants I have

collected this season. in the Spring by Col Vaughan—
with such notes as I shall be able to make —
I wish you would be careful to keep a Catalogue of
all— whether common or not— For if it seems desirable
I would like to see a Catalogue of all the Plants of Upper
Mo. with their Geographical Distribution— I should
feel it a great privilege if I could join you in
making out such a catalogue. It might be a
contribution to Botanical Geography— I shall
doubtless add several hundred Species more in the
Spring— I am sorry I cannot hear any
oftener from the States. The Members at Fort Pierre
were sorry that I did not go to St Louis. I am sorry
now that I did not go. but they gave me no orders
to that effect— How can my letters be got to me before
the 1st of March? I wish you would take the trouble to
inquire— I expect that there will be no express sent
up this winter— Perhaps Mr Campbell may be
sending up— I feel anxious to hear something—
I wish you would take the trouble to inquire
how they may be got to me most expeditiously—
I feel very anxious to show you my collection
it is fine. In a few days I go out to the Cheyenne—
also to the "Bad Lands" and get a Turtle for Col V—
to take down with him in the Spring— The Indians
are not well disposed at present and there is
considerable danger apprehended— especially from
the Brulees who were in the Platte affair.
I have however concluded to spend two or three

months, next Spring in the "Bad Lands" with a couple of men — I shall watch the Cacti more attentively this Spring and doubt not that I shall catch them all in bloom — I have collected a few more which I will send in the Spring — Should there be anything published on this country by Hall. Evans &c I wish you would try to send it to me — Do not bother yourself however When I shall return I know not perhaps in the summer with the Boat and perhaps not until Fall — We have had no snow here as yet —

I remain ever very kindly yours &c

F.V. Hayden —

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Dr F. V. Hayden

Recd May 19
Ans June 6th

Fort Pierre April 5th. 1855

Dear Dr Engelmann.

I have not been able to hear from you since last September much to my regret – Since that time I have written you several letters and sent some Cacti &c to you I sincerely hope you got those three Bottles of Alcoholic Specimens – I sent them by Col. A. R. Gilmore of Chicago who promised to deliver them safely to you. I am anxious to hear about them for they were all gathered on the Yellowstone and among them were doubtless some fine things – I fear that species of Opuntia was not new as I thought though I think it ~~far~~ varies from the form most common below Fort Pierre – I shall watch the Cacti this Spring and take copious notes for you, also of all the early flowers which I will bring to you in St Louis – I have just returned from a trip to the Black Hills in which I made some fine notes – On the South side of a lofty Butte about 1200 feet high a part of Black Hills, I found two Species of plants just coming into Bloom – One of them is a red looking plant: flowers on a spike. The other resembles an Hepatica ~~and~~ and is called by the Indians the Navel flower, from its resemblance to a navel; and when this expands, they think that the umbilical cord of the young child Spring is severed. – I made an abortive trip to Mauvaise terres, Started Feb. 11th and encountered a severe snow storm and was obliged to turn back after reaching Sage Creek within 12 mi

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of place of operations - I shall start again the 9th of April and
then stay until I accomplish my object - I have
made something of a collection of fossils, but other
things are not much - this is not a good part to
obtain Skeletons. There so many hungry mouths
about here that an animal is broken up before it
gets cold - I would like to have you see Col V ~~the~~
when he comes to St Louis - ~~also~~ you will find him at the
Planters House - also Mr Gilpin and Culbertson who are
going down - We may hear from below before the Steamboat
comes up but it is uncertain - I have intended to return
with the Steamboat, but Col V. wishes me to take the tour
up the Yellow Stone again and I am inclined to do so -
I shall be able then to get to St Louis in September and I
wish very much to review my labors of past
summer. In case I do stay up here, I wish to ask
some great favors of you - My collection will return in
the boat, many boxes, A room will be provided by Col V.
but I wish you to see them all handled and put in the
room, or I fear they will be misused - The boxes will
not bear rough handling and I fear for them - I shall
also wish for some things, 1st. two kegs of Alcohol, one of
them Medicated and the other not, both marked poison 2 -
One Ream of paper, same as I got, I wish one keg to take up the
Yellow Stone and the other for a trip contemplated to the Black Hills
but not yet certain - By an arrangement with Col V all
specimens, except fossils, go as a mutual present to
Prof Baird and therefore I think that he will see
that these things are paid for. Please send them on board
the Steamboat care of Col V. If I do not need them

I think I can inform Prof Baird in time — I feel quite anxious to go up the Yellow Stone again for several reasons. and as I will be gone only about two months I think it will pay well — I send you a large portion of my plants which I wish you would examine as early as convenient and should you find any new Species have them published as soon as convenient — You will find some notes under the top Bundles — I could not label them as well as I could wish, for want of paper. So I did the best I could with them and hope you will find some things interesting — Some of them are common in the States I know but I suppose you wish to ascertain the complete flora of this region and the Geographical distribution of all. I have endeavored to make the set as complete as possible and where you find a Specimen not labeled or numbered. it is because it has been mixed in some of the preceding papers, I did not like the plan of putting the Specimens on one another. but want of paper compelled me, Please preserve them until I see you, when I hope to furnish you with many more — Please inform me if there are any plants of interest in the collection I made for Prof Hall — I am obliged to make use of very small means. and often. do as I can, make my pursuits secondary even. In a Government Survey or Expedition where I could have the proper facilities. I could do things much nicer — Mr Galpin. the present Bourgeois of Fort Pierre — has been very kind to me. even like a Brother to me. To him I am much indebted for whatever I have or may accomplish about Fort Pierre — I have directed a letter to Mr Meek in your care. please forward to him. I do not know where he is, but suppose he is with Hall — Col V. just tells me that he will engage a young man to look after the Boxes and see them stowed away, but still I wish that you or Mr Meeks would have an eye to them, if you are not too much hurried — I am sorry to annoy you as much as I do, but I know your willingness to aid in all such enterprises. Please accept my gratitude for many kindnesses you have shown me and I trust that you will not regret it — Do not hesitate to make any suggestions or give me any advice you may think I need — for you know my main object is the advancement of Science and if I can do a little I shall be glad — therefore I shall not only not be offended but feel that you are my friend indeed if you advise me, in any way you may think best — Please make any suggestion relative to collections and I will attend to it — Any things that may come to you for me, if placed in the care of Col V., will come to me free of charge on the Boat — I should like very much to get any works that may have been published on this country during my absence. Perhaps Prof Baird will send them to me, It seems as if I was excluded from the world an exile as it were, and I sometimes feel lonely —

I send a keg and a bottle of Alcoholic specimens & a small keg containing Embryos for Prof Baird. Should they come to you. I would like to have you put them into Adams Express. and send them to Prof B — Please accept my sincere gratitude for all your kindness, and believe me Yours most sincerely,

F. V. Hayden,

Please write how long Mo Survey will continue whether any Government Expeditions are starting, whether any other State Surveys are in progress — If you wish any of the plants for yourself take what you wish. If you think Prof Torrey or Prof Gray would like any of them are welcome to them —

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Dr Engelmann

I send two other kegs of Alcoholic specimens to your care - which I wish you would put into Adams Express - please bore a hole in them and put in some fresh Alcohol - they are very choice things. I am afraid the kegs will leak - I hope you will get the plants - determine them - I will send you more by the Boat - Col V & Mr Culbertson start from Fort Pierre April 25th.

F V Hayden.

The few cacti in the box are from "Bad Lands" -

Rec^d Aug 4th
Ans Aug 29

[illegible]

Fort Union July 10th 1856.

Dear Dr Engelmann—

I received a long excellent letter from you by Steamboat, the only one since September last, I was glad to hear from you, though I wish I could hear oftener— I have written you several long letters which I fear never reached you— I am glad you have found our Cacti that interest you, I have some more, also some notes, which you will receive by Steamboat— A Box of Plants are at Fort Pierre You will see by the outside of the Bundles what ones were collected this year— The others I would like you to preserve— Have you discovered any new or rare species among them— Please let me know in your next, I hope yet to make the "Flora Nebraskana" very complete— I am pleased with the labels— I hope you will make a Catalogue as full as possible— You doubtless received a box of plants from Col V— in the Spring! You will get some things by the Boat which I hope you will forward immediately to Prof Baird, I wish to direct your attention to a small Box, marked Prof Baird, It contains all my discoveries in Bad Lands, 4 or 5 new species— If they should get lost in any way I am broke— I hope you will get them and see

them sent to Prof. Baird in the safest manner possible.
I will send you the notes which owing to my limited
time may puzzle you some. though I hope you
can make use of them. I attempted to describe the
plants peculiar to this country. It is not done in
Botanical Language, but as I have no Books. you
may make something out of them — Among them
you will find some Cacti i ~~[illegible]~~ seen passing
up the Mo. from Fort Pierre. I have found some
curious forms of the flat leaved Cactus, perhaps one
distinct species — I have pressed some of the forms
for you — I am now on my way to Fort Benton
from thence I expect to go to the Mountains — I
will then look for other Cacti forms and those
parasitic plants you spoke to me of I am told by one
[illegible], I am glad to hear that your little son
is becoming a naturalist so young. He shall have
some fine Skulls in the fall — I would have sent you
some of Steamboat, but I had them all packed
up to send to Prof B — My facilities have not yet
been very good — I shall now get away from
Fort Pierre and I think be able to do something —
The plants I have gathered on the Road I send you a
Number — It is somewhat difficult to preserve them well
but I hope you can determine them. For want of paper
I have put several in one paper when they came from
the same locality — After they get to St Louis they
can of course be arranged as you may desire. Any of
those that are worth saving — I beg to collect

every thing that grows. whether common in the States or not - Is it not a matter of interest to determine the geographical distribution of even the commonest plants? Do not fail to go immediately to Steamboat as soon as it arrives and I wish some one who feels an interest in such matters could see them to the Store House. Mr C. P. Chouteau has promised to take them all down and store them free of expense - I feel much anxiety about them lest something may happen to them - I wish you would write often if possible - Give me any suggestions for my things [illegible]—

Since writing the Above, Mr C. P. Chouteau has agreed to take the whole collection down, store it very carefully until I come. He is connected in the matter and will feel an interest. Why did you not write to me by Boat your letter bears date May 15th and the Boat did not start until June 6th.? I hope you will write at any opportunity - and direct ~~[illegible]~~ to Fort Pierre or Fort Clark

I have just sent you (July 12th) some loose bundles of Plants, and a Box of Cacti; with a few other things in the Box. There is a large paper of seed shells, which you will see, are very fine. found in Drift wood below Fort Berthold - Save all carefully. If you can I hope you will go immediately & see to the things personally.

I will write again by the Opposition Boat when it returns. I remain ever yours.

F. V. Hayden

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Rec Jan 3d

St Josephs December 21, 1858

Dear Dr. Engelmann:

I have got thus far on my way to St Louis, and this has been done with a good deal of difficulty, having got frozen up at Fort Riley and come from there by land, having encountered much bad weather & bad roads. I hope to see you by the 1st of Jan. but possibly a little later. I have heard nothing from you since July am sorry that I could not have heard whether my collection got to St Louis safely.

I am very anxious that Mr. Meek should not go on to Albany untill I see him. I wish him to spend a few days with me in my collections, I wish you would impress upon him the necessity

of writing for me so that we can
select such material as we wish
to describe and figure.

I hope you will not fail
to see Mr Meek and I
hope this letter will reach you
before Mr M. leaves for A.

I am well, but I need not say
to you that I have had a hard
time of it and many disap-
-pointments. I have however done the
best I could in all things.

I will write but little as I will see you soon,

Most truly yours

F V Hayden

Please give the enclosed note to
Mr Meek when he comes.

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Recd Febr 23
Ans March 29

Sketch with Plants

Washington Feb 18th 1856.

My Dear Doctor,

I arrived safely at this though the journey was a severe one and lasted a week— My friends however greeted me with great cordiallity and among them I find Dr Newberry with whom I am rooming at the present time— Dr N. is at work at his Herbarium which is quite large and entirely different from mine— I have requested him to remember you especially in the distribution of his plants. He also has some fine seeds. some curious seeds of the Pine which are Edible &c.. Prof Baird is at work on some new Reptiles. Dr Kennerly is translating a very extensive manuscript of Berlandier's of Texas. obtained by Maj Emory. Mr Blake is also here completing his Report. All my Boxes arrived safely at Albany— Mr Meek writes me that he has already found over 200 new species of Shells. exclusive of Plants. In that Box you sent. Dr Leidy finds a new species— 1- Hipparion, 1- Hypopotamus— 3. Rodents. new sp. Prof Baird sent off all the rest yesterday— Lieut Warren has made me an offer which I have accepted. He gives me one thousand dollars

per annum dating my Salary from the 1st of January last. I must be ready to accompany him to the Sioux country by the 1st of May.
Every facility will be afforded me not only by Lieut. W. but the Lt Army D. so that you may expect a pretty thorough business. Perhaps it would be well not to say much about it. I hope you will look over the Plants as you have leisure. You may expect some nice ones next year. though I find by looking at the collections of the various railroad expeditions & others. that you have no reason to complain but rather rejoice. I have seen whole collections without a single root. The specimens do not stick out, because there is not enough of them to do so—
Have you visited my collection without any embarrassment? Let me hear from you as soon as possible all the particulars since I left. I wish you would inquire at the General Distribution for a letter for me.
I have made up my mind that nothing will be done in St Louis and I will try to be ready to make my division in the Spring and send my share to Washington— If it was free I could realize something handsome from it I think— If you find any interesting things in your further search among the Plants. please write me— Prof Baird was much interested in

these squirrels &c — I wish you would try to procure me another copy of Mo Report. I have given mine to Dr Newberry.

Let me know if you hear of any other expeditions going up into that country —

I remain ever yours with sincere Respect.
F. V. Hayden.

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Rec. March 9th
Ans March 29

Philadelphia March 4th 1856

Dear Dr Engelmann,

I am so far on my way to Albany and hope to get to Prof Halls tomorrow - I am having a very pleasant time at this place with Prof Leidy and others - I have not heard a word from you since leaving you, yet I suppose there must be a letter at Albany for me. My friends advise me not to make my collection so public and Mr Meek does not feel so well about - I wish you would write immediately on receiving this letter how the conditions of things are - Is the door locked

or is any one permitted to go
who wishes? I feel very anxious
about it? I wish the room
to be closed and no one permitted
to go in, without yourself or Mr
Chouteau are present. Please see to
it that this matter is strictly
carried out, Dr Leidy will come
on with me in April and
examine the whole and label
all the specimens — I wish
to trouble you a little — It is a
matter of great importance to
me — I wish you to take
those large slabs with Plants
on them and those with flags
leaves and other distinct impressions
a few specimens with some pieces of
the petrified wood, wrap them
up very carefully in a Box
and put them into Adams & Co
express for Prof Baird of

the Smithsonian Institution. It is
of the greatest importance to me
that *it* be done — They will be
returned when examined: you
will have no trouble in getting
them from Mr Chouteau — Please
do this as soon as possible. Dr Hawley
is there and will examine them —
Please wrap them in Cotton & paper to
prevent rubbing. Lieut Warren pays
all freights. And what ever you
spend I will pay you in the Spring.
If any one comes along and wishes
to stay in the room when you
are not with them, please state
my request, that I wish no one
to be in the room when you or
Mr Chouteau are not there;
I write in some haste. but will
write again when I get to Albany —
Very yours faithfully,
F. V. Hayden,

Please send also the Prices of Lignite -

Recd March 30
Mumd

Rochester March 25th 1856.

Dear Dr Engelmann

I have written to you several times since I left St Louis yet I have not heard a word in reply. I hope nothing has happened and that I shall find things all right with you. I felt very desirous of hearing the state of my collection, but no one has written a word. I am expecting a ~~cop~~ couple of Boxes, perhaps a trunk from Council Bluffs in care of the Company. They are of the utmost importance to me as I will explain to you when I come which will be very soon— The two Boxes are—a tea Box & a cartridge Box. I wish you would fasten the tea Box and put them both in the Express office for Mr Meek of Albany.

Please be so good as to see to this

matter as soon as you receive this letter
for they are of more importance to me
than all my other things – and throw
light on a most important point.
If you learn anything of them please
drop me a line at Washington
where I will be next week.
I remain as ever yours.
F.V. Hayden.

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Recd July 4th

Fort Pierce June 18th 1856.

Dear Dr Engelmann:

I received your long but kind letter of April 25th by yesterday's Mail - together with the package of letters - I have been very much afraid that the letters would fail to reach me before the St Mary's would get along and then I could not get them until Fall -

Our plans are now permanently made I believe though we have been doing nothing for some time on account of the uncertain state of affairs - Gen Harney has given Lieut Warren a detachment of men and [illegible] [illegible] Quartermaster to furnish such transportation

&c as he imagined - He will thus go up into the Yellow Stone country as soon as the St Mary's comes along -
I think he will be well. be well fixed to do something in Natural History - I have not got many Plants yet - I am glad you are finding some interesting things among my others - Please let me know as often as convenient. You can send by Mail - You did not tell me whether you sent on those fossil Plants or whether Dr Leidy had been at St Louis - I would like to the result of his visit there, whether he found anything of additional interest - Dr Newberry wrote me about the Fossil Plants I hope you will get time to pack up those large slabs and send them on. We have done a good deal in the line of

Birds - We sent down by the
Steamer. a Box of 290. Bird
skins and we now have
about 75 more. with some
skulls and skins -
It has been intensely hot here for
many days. thermometer ranging
from 95° to 107°. While I am
writing the heat is excessive thermo-
105°. But little rain. A good
stage of water in River -
The Cacti & Yucca have been in full
bloom for 6 or 8 days - Should
any instructions occur to you
let me have the benefit of them.
I hope you will have a fine
visit in Europe as I know
you must have - I wish
you would look into the
value of various kinds
of Natural History objects
in Europe - I may be
thrown on my own

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resources again and in that case I would want to dispose of some there - Please leave me your address so that I can report progress & results to you in the fall - I shall write you again from Fort Union and send you some plants - Do not fail to write as often as convenient.

Please Remember me very kindly to Mrs Engelmann also to Dr Shumard -

Ever yours sincerely -

F. V. Hayden

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Recd Sept 9th 1858

Leavenworth City. K. Ty. Sept 3d 1858.

My Dear Dr E.

We left W. Monday Eve reached St Louis Wednesday Eve, took the cars immediately for Jefferson City and landed at this place Saturday even. Quick travelling was it not? We were quite sorry not to have called on you but we had not time even if you had been in St L which we thought quite doubtful. On our return I hope to spend a day with you looking over those plants, I hope you will try to have a series of them named by the time I return. I will also send you those from W. collected last year and any I collect this trip.

Will you be so kind as to take my letters from the P. O. in St L. and keep them for me until my return? One was advertised for me when I passed through. There are others by this time. We have already made a fine collection of Carboniferous fossils and start tomorrow for the interior. We will trace the formations in detail from the Carb. up to the Cretaceous and solve the Permian question if nothing happens to us. Please remember me to your kind lady and believe me ever sincerely at your service.

F. V. Hayden.

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Rec^d Nov 23^d
Ans Nov 29

Washington D.C. November 19th /58

My Dear Doctor Engelmann.

I have to make out a long list of Plants for Lieut Warren. Will you not take the trouble to send me a list of such of the rarer plants as occur to you in my collection? If you can do so, please send it so as to reach me by the 28th. Lt W wishes to publish it with a paper of his so as to get an appropriation to publish, that is, to show what we have got. We are all well here and hard at work.

I know all the common plants trees and shrubs. only send a list of the rare ones.

Very kindly yours, in haste,

F V Hayden.

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Rec- Dec 8 No.

Smithsonian Institution,

Washington, D. C. December 1st 1858

Dear Dr Engelman.

Your letter has just been received - I was rather urgent because Lieut Warren gave me but a short notice to prepare a list of our collections to be published with the Message and documents, I have prepared a list of such as you had named and some by Dr's Torrey & Gray, and it has gone in, This is all that I fear can be published. Dr Torrey has been here for a day or two and looked over many plants collected while I was with Warren. I have selected out all your favorites also the Cacti and will

send them to you soon;
If there are any plants that
[illegible]
you would like for yourself
If you will send the remainder on to me
labeled I will select a series for the
Smithsonian. I wish especially a
series for myself— I do not know
how to dispose of the duplicates unless
of sale or exchange. All the plants
now in your possession were collected
I believe when I was with Vaughan.
So that they are not at Warren's disposal
at all. Should you find any
new or rare species, publish them
any where and at any time,
I do not know that anything will be
published this winter. Warren thinks
not. Yet he wishes me to have
anything prepared.— Let me know how
you wish your labors published— I have
made many notes on their Geographical
distribution, soil, Geology &c. I would
like to have them go in if possible,
but still let me know your wishes.
I will see Warren soon and let
you know again.
Very Sincerely Yours
F. V. Hayden

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Recd Dec. 17
Ans Jan 5

No. **Smithsonian Institution,**
Washington, D. C. December 11th 1858

My Dear Dr Engelmann

The Catalogue came safe to Lieut Warren - It is fine and I am glad you have taken hold of them the Plants; - I was afraid that when you sent the catalogue to Warren he would not know what it meant - I saw him and as I very well knew before there is no money to pay for the examination of the plants. Indeed I do not think there will be any money to keep me at work on the Geology - Lt Warren will not promise to pay anything now. I will however do all I can hereafter as he expects to start out again next Spring with a larger appropriation - If you can label a series I would be most glad and thankful, for they would be of very great service to me. If you have continued the Catalogue I very much wish you would send on what you have even if it is only a page and I will try to get it published - At the request of Lt Warren I prepared a Catalogue of such plants as could ascertain; It is now in the hands of the printer and will be finished about the 20th. I think I could make some changes and additions if you could send on anything before Christmas. I shall go home soon to Rochester. I will there get the Carices for you and send on a few other things I have here - Please do not fail to send soon the names of any other plants you may have determined. Write me soon your wishes and I will do all I can. The Diagnosis of your new Species of Nasturtium I will have published if you do not object.

With Sincere regard I remain at your Service

F. V. Hayden

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No. .... **Smithsonian Institution,**

Washington, D. C. December 30th 1858

Professor Gray.

My Kind Sir;

Your kind favor of Dec 27th is now before me. Dr Englemann has none of my Platte plants. Those in his possession were collected during the years 1853 & 4 along the Missouri river. Those with you were collected in the Blackfoot country 1855. Yellowstone Valley 1856. Platte Valley, Laramie Hills & Black Hills 1857. I saw Dr Engleman in St Louis in October and told him of my plants here. He requested his favorites, the Cacti & Euphorbiaceae — and I would have sent him those but I am sure there are no additional species. Those with Dr E have been in his hands for 3 or 4 years and I desire now a labeled series as soon as I can get them so that I ~~could~~ can study them and be prepared to take careful notes of their Geographical distribution & on my next Expedition to that country. I expect to start next April and be absent two years and I do not think it possible for any report to be published until our return. He has never expressed to me any desire to make out a separate report and I told him that it was hardly possible to get any report printed this Winter – A few weeks ago Lieut Warren called on me for a Catalogue of the Specimens in Geology and Natural History to be published with the Presidents Message & Documents, & I succeeded after a good deal of trouble in getting together a Catalogue of about 500 species of plants. Dr Engelmann identified the principal portion of them, though I was familiar with many species ~~plants~~. Prof Dewey had elaborated the Carices a year or two ago. 54 species. This Catalogue is now in type. ~~and Dr Torrey~~ ~~identified~~ Dr Torrey was here a day or two and identified a number of Species – It is now too late to add anything more. Dr E – has been a good friend to me and I should be sorry to have anything unpleasant occur and did not think of any "cross firing" – If you think it best to send him the plants you have I am willing. but only on conditions that they be sent here by the 1st of February or soon after – or at least a labeled series – I will write Dr E about the matter. Perhaps it would be better to send the plants here after you are done with them and I will forward them to him without cost to you or him. If there are any new species I suppose Dr E – would like to describe them – My sole object now is. to get a portion or all properly labeled so that I can study them and familiarize myself with their forms – any additional species I may secure hereafter Dr E is welcome to describe. I hope I have explained the whole matter and that all will be right.

Very kindly and truly yours. F. V. Hayden.

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Recd Jan 17th

No. .... Smithsonian Institution,

Washington, D. C. January 6th 1859

My Dear Dr Engelmann

I have not heard from you for a long time and would like to know how you are getting along with the plants — I had a portion here which I told you of in St Louis — A part of them I sent to Dr Gray to label for me — He will send them to me in a few days and then I will remove such as I wish to study and send a complete series to you for your Catalogue — It is now settled that there will be no report made this winter: but I have no doubt but that Warren will go out again in the Spring — If you [illegible] any or all the plants in the St Louis Academy, or any other, else should you think it advisable— As I said before I would like very much to have a series sent on here by the 1st of February—

Dr Gray says he has a carte blanche from Paris Herbarium, Hooker, DeCandolle &c for sets of western plants at any price. I would hope that something might be realized out of my duplicates— You need not put yourself to the trouble of selecting them not aiding your proper labors— I hope you will keep a good series for yourself. We are all well here, Prof Dana is spending a week or two here labelling Corals— Dr Gray wrote me that he did not wish to interfere with you— If there is anything of that kind. I alone am to blame; I simply placed blank labels in the paper for Dr G. to write the names upon which he will do in time & [illegible] a complete series to you— please write as soon as convenient.

Very truly & Sincerely Yours

[illegible] F.V. Hayden

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Recd ~~Febr~~ 17 / 1859
Ans 9 / 25

Washington D.C. February 14th 1859

Dear Dr Engelmann:

I receivd your kind letter when away from the city on a visit to my friends. I hav just now had time to write. I understood you to say that you had sent on a number of pages of the Catalogue. Nothing has been receivd by Lieut Warren. If you hav not sent it I hope you will send on what you hav done as soon as you can. I very much desire to straighten up my affairs before I go out again.

Mr Meek passed through St Louis on his way to Columbia a few days

ago. I suppose he called
on you. There is now
some doubt about any
expedition being sent up
into the northwest at all
this year.

As soon as I can
get time I will send on
some other plants that I
have here. The Cacti I
got when home, and will
bring you on them when
I come.

I sincerely hope you will
not fail to send the Catalogue
+ such plants as you do not list
and a labeled series) (soon
so that I can be prepared for my
next trip. I shall probably be
absent next time two or three
years.

There will certainly be no
report ordered this winter
A small preliminary report

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has been published. but nothing of any account. I will send you some maps through the War Depart. soon.

All well here.

Very kindly and truly yours
F. V. Hayden.

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Recd April 2d
Ans — 5th

Washington D.C. March 26th 1859.

My Dear Dr Engelmann.

I have just received your kind letter saying that you have forwarded a portion of the plants. I am glad of it for I am very anxious to look them through before I start again. Those that Dr Gray labeled for me have been exceedingly useful to me and I cannot bear the idea of going up into that country again without being well prepared to take notes on everything. As soon as I get your labeled plants I will look at them and I think it will be best to send you every thing for a more critical revision. Gray simply wrote the names on a piece of paper in each sheet without notes.

I do not yet know how

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I shall go out to the west. The Sec of War does not decide who will be placed in command. Warren I think will be appointed and if so I shall be in St Louis at an early day. and, as you say we can talk our matters freely. In the meantime I wish you would try to finish the plants and send on the MS before long. I will have it all copied and left in the War Depart: and the original Ms returned to you, There is a terrible stir here about so much natural History being published in the Government Reports. I am afraid the regulations are now going to be very stringent in those matters. When the 10th Vol Pacific & 2d Vol Emory comes out the excitement will be fanned again and I do not know how poor naturalists will stand up under it, I think however that

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in the course of two or three years matters will change so that we can get our papers published again.

The box of plants has not yet arrived but no doubt will in a day or two.

Dr Hayes of Leach's Wagon Road Expedition is here with a Splendid collection of Plants. I have advised him to send them to you but he is intimate with Thurber and Torrey and desires to send them on there. However he promises to send you, your favorites - I will ask him to make up a bundle and send them with mine, the Cacti of importance - He has a plenty of the prepared fruit of the Cereus giganteus which is exceedingly palatable - If you have none I will beg a "lump" from him.

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I would like as many blank
labels as you may have to spare.
But I think I shall not need them
until I see you. If so I will write.

Dr Newberry is here. has read your
Report — I think Ives' Report will
be printed next winter. There
is very little money now for
anything. The Government is very
nearly bankrupt. I hope there
will yet be better times.

As soon as I know what course
to pursue the coming summer
I will inform you.

With kindest regard I remain
as yours —
F. V. Hayden

The Box of Plants has
come in good order.

Recd April 15th
Ans April 25

Washington D.C. April 9th 1859

My dear Dr Engelmann,

Your kind favor of April 5th has just come to hand. I am glad that you are getting along so well with the plants. I will box up all the Plants I have here and send them to you in time to reach you before I get to St Louis. We can then look them over together.

I wish that as fast as you get any of the Ms. ready you would send it on as I desire to have my Ms report uniform.

Warren does not go out at all this season. A party however goes into that country under the

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command of Capt Raynolds of the Topographical Engineers to be absent two years and explore the whole Yellow Stone country. I expect now to be in St Louis not far from the 1st of May.

Dr Hayes is here still. I will tell him what you have said. He will perhaps send something by me to you.

Dr Newberry may soon go to Fort Defiance to join an Expedition to the head waters of the Colorado. to be absent about 4 or 5 months.

Emory's Report is going to be of enormous size. nearly 300 plates. large enough for two volumes.

In a few days the whole western matter will be decided.

Yours very sincerely
F. V. Hayden.

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Recd. May 7th

Washington, D.C. ~~April~~ May 5th 1859.

Dear Dr Engelmann,

Your kind letter of April 26th came duly to hand, I am glad you are still at work on those plants. Inasmuch as I will not leave this place by the 10th or 15th. I would be glad if you could send on any more Mss I would have it copied. Perhaps though it would be as well to retain it until I come and then I can copy it and send it on,

It will not be published before my return 18 months hence so many corrections can be made at that time,

Capt Raynolds our Commander will be in St Louis soon, He continues the Expedition for the coming two years. Dr Snyder of Mo has been appointed Surgeon & Physician to the party, while I have charge of the Geological and Natural History departments, I hope to take especial pains to collect all the plants of the country as far as possible especially those in the mountain country. I will send them to you that you may describe the new species and figure them for which labor I shall make an effort to have you compensated.

However I will talk on all matters with you when I come on. in a few days.

Dr Newberry will pass through St Louis in about a week, on his way to New Mexico. I hope you will see him.

Dr Hayden left a quantity of material with me which I shall send you with my plants.

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He promised me that he would send you more from New York.

Very Sincerely Yours,

F. V. Hayden.

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Recd May 31st
Ans. June 7

Missouri Riv. May 29th 1859.

Dear Dr.

I called to see you just after you had left your house. I am sorry that I could not have seen you again and spent more time with you but it was out of my power. As it is I did not succeed in finishing my business at St Louis but hope to get some time at Leavenworth or St Joe. Please write me at Sioux city or Fort Randall or both places. I will then inform you where my address will then be for the future. Col Vaughan will not leave Planters House until Monday Evening. I would like to have you do me a favor. At the Virginia Hotel I left two new shirts to be washed, came away and forgot them. I wish if the Col has left you would procure them

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I have a paper in the Transactions of the American Philosophical Society. Leidy promised to send proof to St Louis if possible. Will you please inquire at the Post Office where the papers are given out. and if you find it send it to me at Fort Leavenworth. I think I would get it.

We are moving on smoothly.

Yours truly

F. V. Hayden.

The boat rocks so I cannot write very distinctly.

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Rec Nov 28
Ans May 5 1860

Deer Creek. Nebraska. November 9th 1859.

My Dear Dr Engelmann..

On my arrival at the Platte I found your long letter of June 6th the only one yet received. I was a long time in the interior when I could neither get or send letters to any one but now we are stopping for winter about 125 miles above Fort Laramie on the Platte. It is a fine place to spend the winter and will be elegant to operate in the Spring. I have collected a good many plants but not many that are different from those that you have already seen. We have had a successful time generally ~~I~~ I am greatly obliged for the fine scolding you gave me. but I do declare that under the circumstances I cannot do much better. I wish I could. but when all departments must receive a share of attention something must be neglected. I will make a somewhat nicer collection this year but I can never explain to you the vexatious things which a naturalist must endure on one of these Government Expeditions. I will always do the

If you could send me a Newspaper occasionally I would be so grateful; they are a great treat.

best I can and regret that I cannot do better.
Still I hope to get a pretty fair representation of the
Flora of Nebraska.

I will look carefully for all the Plants
you speak of, and doubt not I shall get them.
I am sorry the box was in no better condition, but
I had no time either in W. or at St Louis to do
anything. When I return from this trip I shall
spend two years in the States and see if I
cannot work up matters somewhat. I have been
pressed too hard for the last 4 or 5 years & I cannot stand
it. — I shall soon be settled in my rooms
and hard at work. Sometimes in the mountains
exploring & hunting. Please write me as often
as you can. We have a Mail once in two weeks
a P.O. at the mouth of the Creek. "Deer Creek
Nebraska". care of Maj Twiss Indian Agent.
Please remember me very kindly to Mrs E. & your
Brother. If you make out any new of those
plants please send the Ms. sheet to St [illegible].
I will try to send you a box of Plants in the
Spring. Please write soon—

As ever yours Truly
F. V. Hayden.

Rec'd Sept 25th

Fort Randall. September 16th 1860.

Dear Dr. Engelman.

Your Excellent favor reached me at Fort Benton per Steamboat & I take the earliest opportunity to answer as also to inform you of our safe arrival thus far on our way to civilization & friends. — We hope to be at Omaha 5th October when the party breaks up — We have passed the Mountains in safety. all our party well — Your letter at Fort Benton contained much interesting news to me. My collection of Plants is large. & I think rare. I secured only one species of Parasitic from the Pines. Mr Meek sent me an acount of your brothers labours which were of great interest to me. I differ with him in regard to the age of the formations at Deer Creek & on the Platte — I told Mr Meek to strike it out if he thought best & he did so — I have heard nothing. finding no letters here

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Finding no letters here. – As soon as I get to Washington I will arrange my plants & send them to you – My collections are quite large in all departments & my fund of geological information quite large, especially of the mountains – I will not write more now but hope to see you in St Louis about the 10th or 12th October.

Ever most sincerely yours.

F. V. Hayden.

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Rec Nov 20th
Ans Dec 3d

Washington D.C. November 17th 1860:

Dear Dr Engelmann

I have now got fairly at work. — all well — The Plants I have just been looking over preparatory to sending them to you — They look better than I expected to find them — You will find a small collection of Dr Cooper & also one made of Dr Hines of our party. Dr Hines collected his in the Valley of the yellow Stone I think — but there were no labels — so I labeled them the best I could. All not otherwise indicated were collected solely by me — I hope you will be able to get at them before next Spring, or as soon as convenient. We are all rooming together and having a fine time as expected — Your brother is with us several times a day & we are at his room which is just over our head. He is now doing a fine work in Meteorology — All as pleasant as possible. If you find new species let me know & I will try to get some money for drawings and if possible pay for your Services. Please write soon.

I wish you would look after my box of Books at Dr Wislizenus and see that they are all safe and inform me in regard to them when you write or all well.

Ever yours most Kindly
F. V. Hayden.

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Rec'd Nov 29th
Ans Dec 3d –

Washington D.C. November 25th 1860

Dear Dr Engelmann

I have those Plants all boxed up ready to be forwarded to you – but it must be done officially and of course will take time. Capt Raynolds will write you a letter soon so that you will feel authorized to make some demands upon him – At least please request funds to figure all the new Species and let that include the new things obtained in Warrens explorations indeed all the unfigured or not well figured Species in that region – Do not make that a point in your reply to Capt R. but request money to figure new & rare Species in his collection and fruit, see that you have it.

Prof Baird desires you to prepare a complete set of the Plants of the North West for all my collections labeled according to a plan adopted & if Cong. does not pay you for your trouble the S. I. will. Drs Torrey & Gray are now at work forming a great natural Herbarium for the S. I. Prof Baird wishes to know if you will do so. — We are having a good time here now in everything except Politics — Mr Meek has just recd a letter stating that Dr Shumard had been supplanted in his position by a Dr Moore — Perhaps you have heard of it.

Very truly Yours
F. V. Hayden.

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Rec'd Jan 8th
Ans Jan 10

Washington. January 4th 1861

My Dear Dr Engelmann.

It has been so long since I have heard from you that I begin to think you may almost be regarded as belonging to a foreign country or to the land of Dixie. At any rate so far as any of your Washington friends are concerned it has been so. I am anxious to hear how you are coming on in regard to those plants also. & when you will have them done. Capt Reynolds is with Gen Rosecrantz command and when he will be here to resume his work again I know not, though he hopes to be here this month. Will you write as soon as you can conveniently and let me know the state of the times with you and the condition of Science in St Louis. I am progressing as rapidly as possible, but I do not think I shall leave W. next summer at all. Do you find plants of interest and how near done the Botanical part.

Mr Meek is here at work also. Prof Baird & Prof Henry both well. I see no decrease in scientific effort as yet. though war is the only profession that pays at the present time — As to our report I do not think it will be ready for publication until the next session of Congress. I do not see how it can be. Still we wish it completed as soon as possible, whether it will be published even then is uncertain. Still influences may be brought to bear upon that will push it through.

Please present my kind wishes to your family.

Do you know anything of Mr Wimar, the artist? Please tell me if you know his whereabouts. I would like to see Dr Hilgard's Geology of Miss. Can you send a copy or ask him to do so.

Ever yours most truly
F. V. Hayden.

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Recd Febr 2d
Ans March 14 AL

Washington DC Jany 28th 1861.

Dear Dr Engelman.

I took your letter to Capt Reynolds and he read it as I expected he would. Your first letter would have given him some offence although you did not mean any. The Plants have been forwarded to you per Adams Express and will doubtless reach you as soon and perhaps before this letter. Capt R. has written you also I suppose. I would like to hear from you as soon as you take a glance at the plants what you think of them.

The prospect is now that matters will be patched up so as to save the border States and if so all will go on right as before

It is not considered that A adds anything to the prosperity of the country & tho — the Cotton States in anywise and the desire is to get rid of them. I think we will be in first rate working order in a few months.

What my prospects for the coming summer are I cannot now tell, something good will turn up I am convinced.

Please present my kind regards to Mrs E & son also to your brother when you see him,

All well here. No prospect of any reports being printed this winter certain.

Very truly yours,

F V Hayden

Recd April 12th
Ans June 15

Washington. D.C. April 4th 1861

Dear Dr Engelman.

Can you furnish me a Catalogue of Warrens Plants beginning with the Monocotyledons and extending through to the end of the Graces; you know I have the Cariceas from Prof Dewey. Please send it as soon as you can for I need it now. or let me know something about it if you have sent it on. All the Di-cotyledons are here.

I do not think I will get my Agency. The Political pressure is too great. I may however as the appointment has not been made

and my backing is of the best kind—
I do not now depend upon it a
particle although it has been promised
to me— Capt Raynolds has
not yet determined what he will
do about those plants, though
I am satisfied that he will do
something— I wish you would
tell me how many plates
you will need to have drawn.
and what progress you have
already made and what novelties
you find. As soon as matters
get a little more settled I will
get him to state exactly what
he will do.

We are all well and hard
at work. I have been pushing
up my office until I have become

disgusted and let it slide entirely.

Please write me and send or let me know of the remainder of that Catalogue as soon as you can. Kind regards to Mrs E & Son.

Most truly yours.

F. V. Hayden

Rec - June 24th

No.
Smithsonian Institution,
Washington, D. C., June 20th 1861

Dear Dr Engelman.

Yours of the 15th came to hand this morning – I thought it strange that you did not write me but supposed that you were so busy that you could not. I was finishing up my report for Warren as he had given me permission to present it to some Society for publication – We do not now hope to have anything published by the Government until peace returns – When that returns we hope Science will prosper again. But shall we stop work entirely because war is upon us? rather should we not prepare for a time of peace which must come eventually? We will all be losers – I have lost pecuniarily all that I have saved for the last 5 years and I do not expect to be earning anything a great while longer – But I will not be wholly discouraged – I think Cer

Raynolds will do something toward
the Botany, perhaps all that you ask
He will doubtless let you know soon.
I have a full Catalogue of Warren's
Plants up to the Monocotyledons.
The Carices were worked by Prof Dewey,
but none of the grasses — I thought
you might have the old MSS. of the
Catalogue — I know I sent it to you,
We are having wars and rumors of wars
all the time — today Extras are out
crying war — Regiments of troops are pouring
in here daily what the end will be I
cannot imagine — I think however that the
South will find they have imposed upon them-
-selves a task without counting the entire
cost — Prof Henry, Baird & are
all well. Meek is at New Haven — We
are all at work here as much as
the excited state of the country will
permit — I lost my agency — I do
not regret it now. I think I shall
come out right in the end —
I will see Capt Raynolds in a day
or so and write again — I may see
you this summer as I think some
of going to Council Bluffs.
My kind regard to Mrs E & son.
am yours faithfully
F. V. Hayden.

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Rec'd April 1st

No.______ Smithsonian Institution,

Washington, D. C., March 18th 1862

Dear Dr Engelmann.

I had completely forgotten that the Catalogue was not just as you prepared it. The whole report with the exception of a few paragraphs was printed just as I completed it over three years ago. I am sorry that it could not have been submitted to you. The proof was read by a Botanist in Pa. I had very little opportunity to read my own proof. If you will make out a critical notice I will make the proper statements and send it to Silliman's Journal. This will set you right as far as it can be done. I hope you will make out a full list of the plants of the

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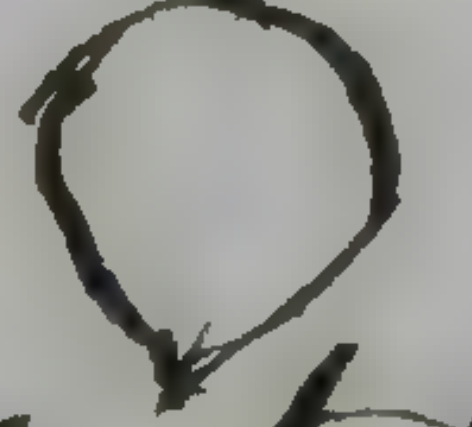
Missouri and its tributaries making it complete – that will be final and untouched except by you.

The Pine you speak of is abundant on the heads of Snake river, bears a nearly 3 cornered nut which is much used by the Bannacs Indians. also the Snake Indians – I secured some of the nuts, but I am afraid they got lost.  The seed was nearly the above outline – of course very variable in size and shape. It is also about the size of that outline. I will look again among my notes and see if any other information can be found.

I have some extra copies of the Botanical part – will send them to you if you wish – I hope you will write a full notice of the Catalogue. You shall not suffer injustice by any act of mine.

I will send you a complete copy of the memoir as soon as I can get the map. which was omitted.

I wish you could send on the notice in time for next number of Journal. Will write again soon.

Sincerely yours F. V. Hayden

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[illegible] Missouri [illegible] leaves, [illegible]
[illegible] complete _ [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] Jackson -
[illegible] Jackson's
[illegible]
[illegible]

[illegible]

Rec'd Oct 6 –

Washington D.C. Oct 2d 1865

Dear Dr Engelmann

I have just returned from a tour to the North west: among the mines of Lake Superior – I saw Col Raynolds He desires to have the reports completed at as early a day as possible – I hope you will soon have the Botanical Report ready. I wish that you could make it to include all the plants in the new Territories of Colorado. Idaho, Montana. Nebraska Dakota & Kansas – I am anxious that the report shall be especially for the inhabitants of these

Oct 20 '65

Territory. I intend to have all the other Catalogues complete — I am hard at work at the Geology will have the Special Geology done in about 3 months —
The military have nearly all left us. We are becoming a peaceable people again and I think explorations will be resumed. The S. I. is in process of repair very rapidly and will soon be much better than ever before. I would like to hear from you how you are in Missouri. I see you have described a new species of Water Lily. I received a brevet of Lieutenant Colonel for "faithful and meritorious services during the war.

Ever yours most sincerely
F. V. Hayden.

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Recd Nov 22
Ans Nov 26

Phila. Nov 19th 1866

Dear Dr:

James Stevenson has just arrived here safely. He tells me he borrowed $100. of you which I return in this Certificate of Deposit. inasmuch as the Western Bank has no dealings in St Louis. The Bank is well known. I thank you so much for your kindness. I think every thing will get here safely. One fine Head of Hyaenodon horridus has come, and a beautiful skull of an ~~[illegible]~~ insectivorous Mammal a new genus. There will be many additions to material already collected, but not much that is new. I am sorry that I

could not have seen you more
and talked with you longer. but
I was in a great hurry and you
in a still greater hurry. so I
hastened on. I hope you will
have that Catalogue of Plants
ready by the 1st of March. Col Raynolds
writes me that he will hand in
his report by that time
Dr Leidy and all the scientists
here are well as usual —
Ever most sincerely yours
F. V. Hayden

To Dr Geo Engelmann
St Louis
Mo.

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Recd Febr 18
Ans Febr 24

Phila. Feb 14th 1867.

Dear Dr Engelmann:

I hope you will get the Plant report done in time — I hope you will let it include so far as possible the complete Flora of the Valley drained by the Missouri River and its tributaries, This seems to be the best opportunity to publish such a list and I hope it will be completed.

All working away here, I have received the Kanzas report of Swallow's — It shows his character thoroughly — He is well used up east of the Miss.

Yours truly
F. V. Hayden

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Recd March 6

Phila March 3d 1867

Dear Dr Engelman.

Your kind letter came duly to hand. I am sorry the plant report will not be completed; I beg of you to finish it as soon as you can — I shall try to give some account of my Bad Land Trip in July No. Silliman,

I wish you would do me the favor to send me No 2, Vol 1 of Transactions Acad. of St Louis, I desire to bind them and that is all that is wanting. I value them highly — I do not know much of Swallow except that no one seems to think well of him here —. I have sent a suite of my Bad

May 3 '67

Land" fossils to Yale College and one to Boston Natural History Society. Scudder has in his possession over 50 species of fossil insects collected near Fort Bridger mostly diptera. Tertiary. Wonderful country that West -

Yours Most sincerely
F. V. Hayden.

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Recd March 28

Washington D.C.
March 24th 1868

Dear Dr Engelmann

Can you not let me have a copy of your report on the Botany of the Upper Missouri for my Geological Survey of Nebraska. Col Reynolds' report was sent to Congress last July — therefore it will hardly be possible to get it published. I do not believe the report will ever be printed — If there is anything new in that collections of plants, it is certainly about time it was published — I beg you to let me know in what

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condition your report is on the Plants, and what you propose doing with it. I do not know what Reynolds is going to do about it. I am hard at work on my report and hope to get another appropriation for future explorations which will be successful I think. I am doing all I can to work out the geology of the west.

Yours truly
F. V. Hayden

I have a collection of Plants here which might be sent to you.

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DEPARTMENT OF THE INTERIOR
U. S. GEOLOGICAL SURVEY
(of the)
TERRITORIES

Washington December 3d 1874

My Dear Dr Engelmann—

I find that my Transactions of Academy of Science St Louis. need of Vol I No 2 Of Vol III. I have only No 1.

Vol II is complete. I have a few duplicates which I will send back to you if you need them.

Please send me No 2. of Vol I & all published after No 1 of Vol III. as soon as convenient & oblige yours sincerely

F. V. Hayden